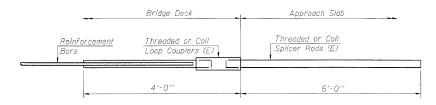
Stage Construction Line

BAR SPLICER ASSEMBLY ALTERNATIVES

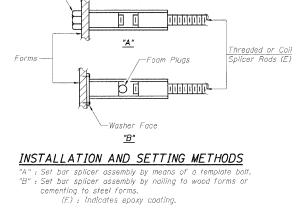
WELDED SECTIONS

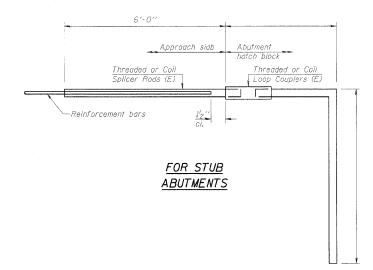
**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

	В	ır Spi	licer fo	r #5	bar	
Min.	Capacit	y = 2	3.0 kip	os - 1	ension	
Min.	Pull- ou	tStre	ngth =	12.3	kips -	tension





	Bar Splicer for #5 bar
Min.	Capacity = 23.0 kips - tension
Min.	Pull-out Strength = 12.3 kips - tension

<u>NOTES</u>

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

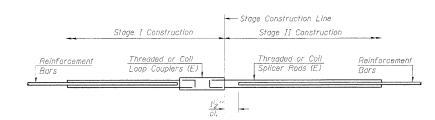
Minimum Capacity
(Tension in kips) = 1.25 x fy x A₁

Minimum *Pull-out Strength = 0.66 x fy x A₁
(Tension in kips)

Where fy = Yield strength of lapped reinforcement bars in ksi.

 \dot{A}_{t} = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

	BAR SPLIC	ER ASSEMBLI	ES		
		Strength Requirements			
	Splicer Rod or Dowel Bar Length		Min. Pull-Out Strength kips - tension		
#4	1'-8''	14.7	7.9		
#5	2'-2"	23.0	12.3		
#6	2'-7"	33.1	17.4		
#7	3′-5′′	45.1	23.8		
#8	4'-6''	58.9	31.3		
#9	5'-9''	75.0	39.6		
#10	7′-3′′	95.0	50.3		
#11	9'-0''	117.4	61.8		



<u>STANDARD</u>

Bar Size	No. Assemblies Required	Location
#5	16	Deck
#6	6	Deck

BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO. 022-0098

benesch Engineers - Surveyors - Planners 205 North Michigan Avenue, Suite 2400 Chicago, Illinois 60601 Job No. 10050

alfred benesch & company

SHE	ΕT	NO.
8	SH	EETS

F.A.I. RTE.	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
290 355	22(1, 1-1,	2&3)RS-	- 7	DUPAGE	546	262
				CONTRACT	NO. 60)G51
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						

DESIGNED CHECKED KWS DRAWN CHECKED KWS

BSD-1

10-1-08